MicroSurvey

DC5 USER MANUAL

（V1.0）

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Preface

DC5 is a highly integrated handheld mobile terminal, with an 806MHz processor, 4G -board FLASH memory, high-capacity battery, integrated wireless access capability diversification (including GPRS, WIFI and Bluetooth). For integrating many functions, it can be very convenient to collect, store and transfer data in the wild using the DC5. With the built-in high performance GPS Receiver, you can calculate the position, navigate and get real-time high-quality data. You can use the 5,000,000 pixels digital camera capture color pictures as well to provide integration solutions for the natural resource management and assets management.

Modular production process-the product is made up of the standard modules. Control every aspect during producing to increase the capacity on the one hand and decrease failure rate, improve the product quality on the other hand. The advanced production technology and superior product performance ensure the equipment efficient, table and durable. It provides every GIS users unprecedented new experience.

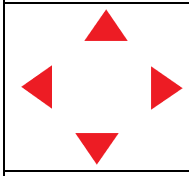
Chapter 1 Product Introduction

This chapter mainly introduces you to the external components of your device.

1.1 Front Components

Ref	Component	Description
①	Charge/Power on Indicator	Flashes in red to indicate that your device is being turned on.
		When battery charging, Flashes in green to indicate battery charging is in progress.
		Flashes in amber to indicate that the battery is fully charged.
②	GPS Indicator	Flashes in green to indicate that the GPS function is switched on.
③	Wireless communication indicator	Flashes in blue to indicate that the Bluetooth function is on.
		Flashes in green to indicate that the Phone function is on.
④	Earpiece	Serves as the phone earpiece during a call.
⑤	Touch Screen	Displays the output of your device and responds to your tapping.
⑥	Keypad	Includes keys for numbers and specific functions.
⑦	Power Button	Turns on or off your device.
⑧	Microphone	Records voices.
		Serves as the mouthpiece during a call.

1.1.1 Keypad

Ref	Component	Description	
①	Numeric Keys	Enter numbers（majorly for models with the phone function）	
	Alternative Function Keys	Provide functions as indicated by the red icons when Fn lock is on.	
			Moves up, down, left and right within the screen or menu.
			Goes to the next input field.
			Increases the brightness level of the screen. It cycles to the lowest level after reaching the highest level.
		ESC	Exit the currently opened menu or program.
		F1, F2, F3	Performs the program assigned under Personal settings when you press one of them.

②	Send Key	Dials or answers a call.
③	Left/Right Soft Key	Performs the command shown on the bottom left or right corner of the screen.
④	Function Key	Switches on or off the alternative functions of the numeric keys. Fn lock is off by default. When it is switched on, the icon Fn shows in the navigation bar.
⑤	Camera Key	Starts the Camera program.
		Serves as the shutter release button if the Camera program is currently in use.
⑥	End Key	Ends or rejects a call (select models only).
		Returns to the Today screen from another program.
⑦	←	Backspaces over one character when in a text input field.
⑧	Start Key	Opens the Start menu.
⑨	Action Key	Confirms your selection by pressing, similar to the Enter key on a keyboard.

1.2 Back Components

Ref	Component	Description
①	Camera Lens	Takes still pictures or records video clips.
②	Speaker	Plays music, sounds and voices.
③	Hand Strap Holders	The hand strap attaches here.
④	Battery Cover	Inside is the battery.

1.3 Bottom Components

Ref	Component	Description
①	Serial Connector Com 5	Provides D-sub 9 pins RS232 function.
②	USB OTG (Host & Client) Connector	Connects to the USB cable.

③	Power Connector	Connects to the AC adapter.
④	Stylus Pinhole	Used to place the stylus that is served as the input device by tapping on the touch screen to make selections and enter information.
⑤	Hand Strap Holders	The hand strap attaches here.

Chapter 2 Basic Operation

This chapter mainly introduces you to the basic operations of your device.

2.1 Turning on、Suspending、Turning Off、Resetting

2.1.1 Turning on

Press the Power Button and don not let go until the indicator color turns to green from red. It's about 33 seconds to turn on the product. Then the screen will appear the device information and Windows icon in order.

2.1.2 Suspending

Press the power button one second when the device is on, let go, the device will be suspended and the first indicator from the left color turns to amber.

If the device has already in use, the device suspends halfway (black screen)，to resume operation, press the power button. You will be back to where you left off.

CAUTION: The mobile phone indicator keeps on flashing when your device is suspended. Any incoming call will resume your device.

2.1.3 Turning off

If you are not using your device, press and hold the power button for at least 3 seconds until the device appears a dialog box as shown in figure 1. Then click “OK”.

Figure 1

2.1.4 Resetting

If the device stops responding to the stylus or if it does not respond when you press any of the keypad buttons, you may need to reset it by performing a hard reset.

2.1.4.1 Performing a Hard Reset

Press both Send and End buttons one second at the same time， and then press the power button to turn on your device.

2.1.4.2. Performing a Factory Reset

Warning: If you perform a factory reset, all installed programs and information contained in memory will disappear. It is recommended you backup or copy all data before resetting.

To perform a factory reset, you can do so as follows:

Settings--system--factory reset, then input 1234 and the system will reset to factory settings.

2.2 Pull the Stylus out and in

Use the stylus to navigate and select objects on the screen.

Attach the stylus and your device with the tether. Pull the stylus out of the slot and extend it for ease of use. Store it in the slot when not in use.

2.3 Installing、Uninstalling the SIM、TF Card and Battery

1. Lift the latch handle of the battery cover and turn it counterclockwise to the unlocked (vertical) position. Then, detach the cover from the device.

2. We can see two slots then, with the upper side one installing SIM card and the bottom side one installing TF card. To install the SIM card, push the SIM card holder right. With the SIM card's chip side facing down put the card into the slot. Close the holder then. The TF card installation is similar to the SIM card installation. To remove the SIM card and TF card, push the holder and then take out the card.

3. To install the battery, attach the bottom side of the battery to the compartment at an angle and then lower the upper side to engage the connector. Attach the bottom side of the battery cover to the device at an angle, and then with the handle still in the unlocked (vertical) position, fit the latch handle into place. Secure the latch by turning it clockwise to the lock (horizontal) position.

CAUTION: it's easy to cause damage to the battery during installation. It is recommended you engage the top of the battery into the connector first at an angle and then push the bottom of the battery to the compartment.

2.4 Charging the Battery

The battery isn't charged from the factory. You must charge the battery completely before using it for the first time. Charging duration is two and a half hours. The charger has an overcharge protection function.

CAUTION: For optimal performance of the lithium battery, take note of the following:

- Use the included AC adapter and charger only.
- There is no need to fully discharge the battery before charging. You can charge the battery before it is discharged.
- Do not charge the battery where the temperature is high (higher than 50℃) or low(less than 0℃).
- If you will not use the product for a long period of time, be sure to fully charge the battery at least once every two weeks, over discharge of the battery can affect the charging performance.

2.5 Fitting the Hand Strap

Align the upper hand strap bracket with the two mounting holes behind the device and then use a screwdriver to tighten the screws. The other side is fixed to the hand strap holders at the bottom of the device. We can see it after the installation is complete as shown in figure 2.

Figure 2

Chapter 3 Connecting and Synchronizing with Your Computer

3.1 Installing Connection Management Software

To install software onto a device powered by the Windows Mobile operating system or to copy files between your device and a PC you must connect the device to a PC. If the computer is running:

• Windows 7 or Windows Vista operating system, use the Windows Mobile Device Center (WMDC) to manage the connection.

• Windows XP or 2000 operating system, use ActiveSync to manage the connection.

IMPORTANT NOTE: You must install Microsoft's Windows Mobile Device Center or ActiveSync onto your PC computer before you connect the handheld.

3.1.1 Installing Windows Mobile Device Center

The Windows 7 and the Windows Vista operating system include a basic connectivity driver for devices powered by a Windows Mobile operating system. This driver allows you to transfer files from the device to an office computer.

To install software onto a device powered by a Windows Mobile operating system, you must install Windows Mobile Device Center 6.5 onto a PC.

3.1.2 Installing ActiveSync

Search the ActiveSync 4.5 version to download. Alternatively, visit http://www.microsoft.com/en-us/download/details.aspx?id=15 to download the latest version from the Microsoft website.

3.2 Connecting and Synchronizing With Your Computer

To connect the device to a PC:

1. Make sure that the device and the PC are switched on.

2. Make sure you have installed the appropriate connection management software onto the PC.

3. To form a connection, do one of the following:

① Use the device's integrated Bluetooth radio to establish a wireless serial link to a Bluetooth-enabled computer.

② Use a USB connection: Plug the USB cable into the USB port on the device. Plug the other end of the USB cable into a USB port on the PC.

3.2.1 Managing the Connection and Synchronization Using the Windows Mobile Device Center

Connect the device to the PC. It will appear a dialog box shown as in figure 3 if the device successfully connects to the PC.

Figure 3

CAUTION: If the device doesn't establish a connection automatically, check whether the connection is enabled in the Windows Mobile Device Center software and on the device.

HELPFUL NOTE: if the device doesn't connect automatically check in Settings | Connections | USB to PC and uncheck "Enable Advanced Connectivity"

Click "connect without setting up your device" shown as in figure 4.

Figure 4

Click “File Management”. Appear a drop-down menu shown as in figure 5.

Figure 5

Click “Browse the contents of your device” shown as in figure 6.

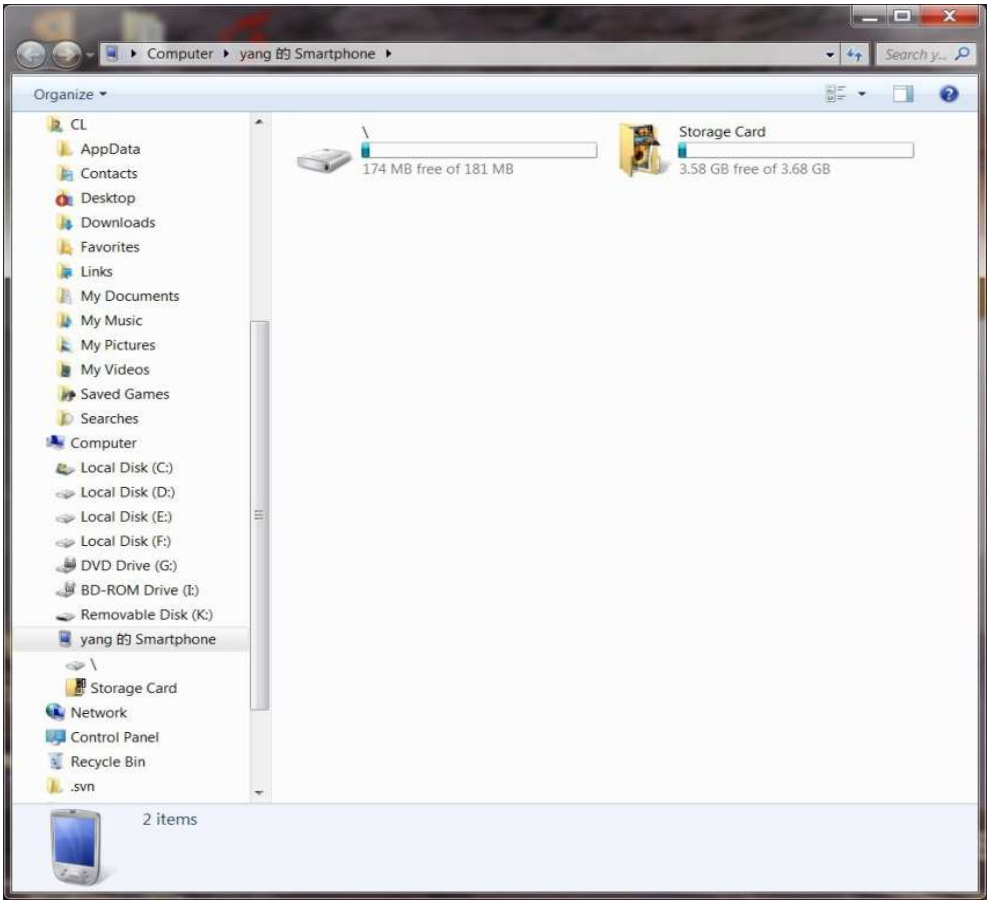


Figure 6

Open the data of the corresponding letter of the disk, select the files in the desired path you want to realize uploading and downloading files.

3.2.2 Managing the Connection and Synchronization Using MicroSurvey Transfer

Install MicroSurvey Transfer. This program can be downloaded from: http://www.microsurvey.com/helpdesk2

ActiveSync or Windows Mobile Device Centre Setup

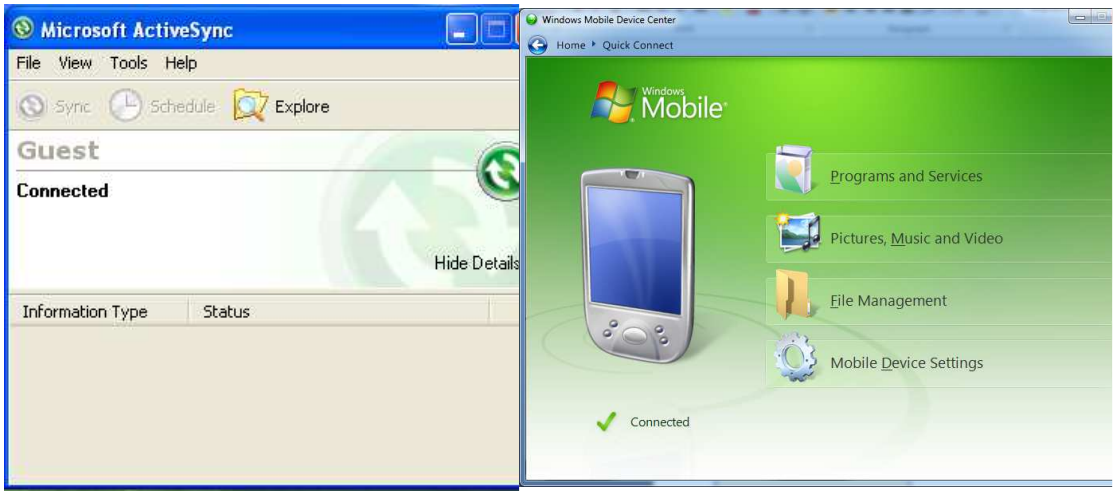
Once you have the Microsoft ActiveSync or Windows Mobile Device

Centre program installed, connect your Data Collector to your computer using the USB cable.

When first connected, you will be prompted to set up a partnership or set up your device. You will want to set up a Guest Partnership, or select "Connect without setting up your device."

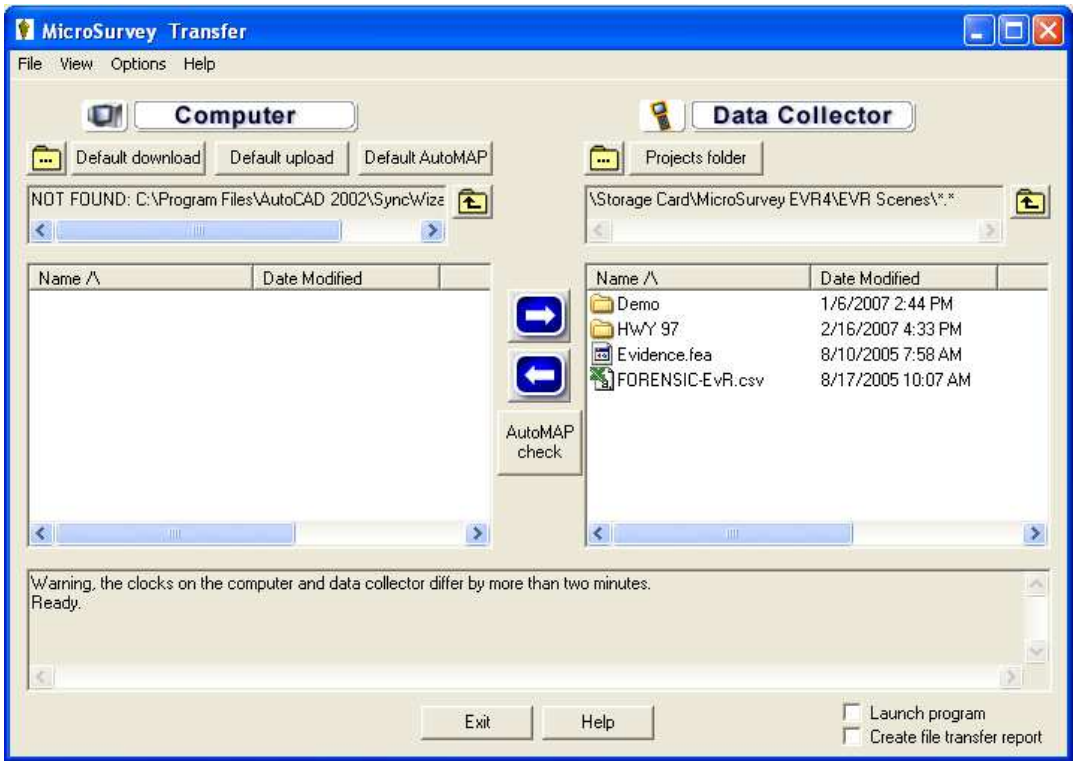
***Note**: If your device does not connect as shown, turn the device off, and then back on again to retry. It is common to have to perform a reset on the device to resolve communication difficulties.*

Click Next to continue. ActiveSync or WMDC should now display as shown below:

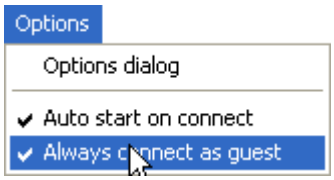


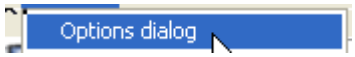
MicroSurvey Transfer Setup

Now that your device is connected, you will need to configure MicroSurvey Transfer. Open the program from Start Menu | Programs | MicroSurvey | MicroSurvey Transfer if it doesn't automatically pop up.



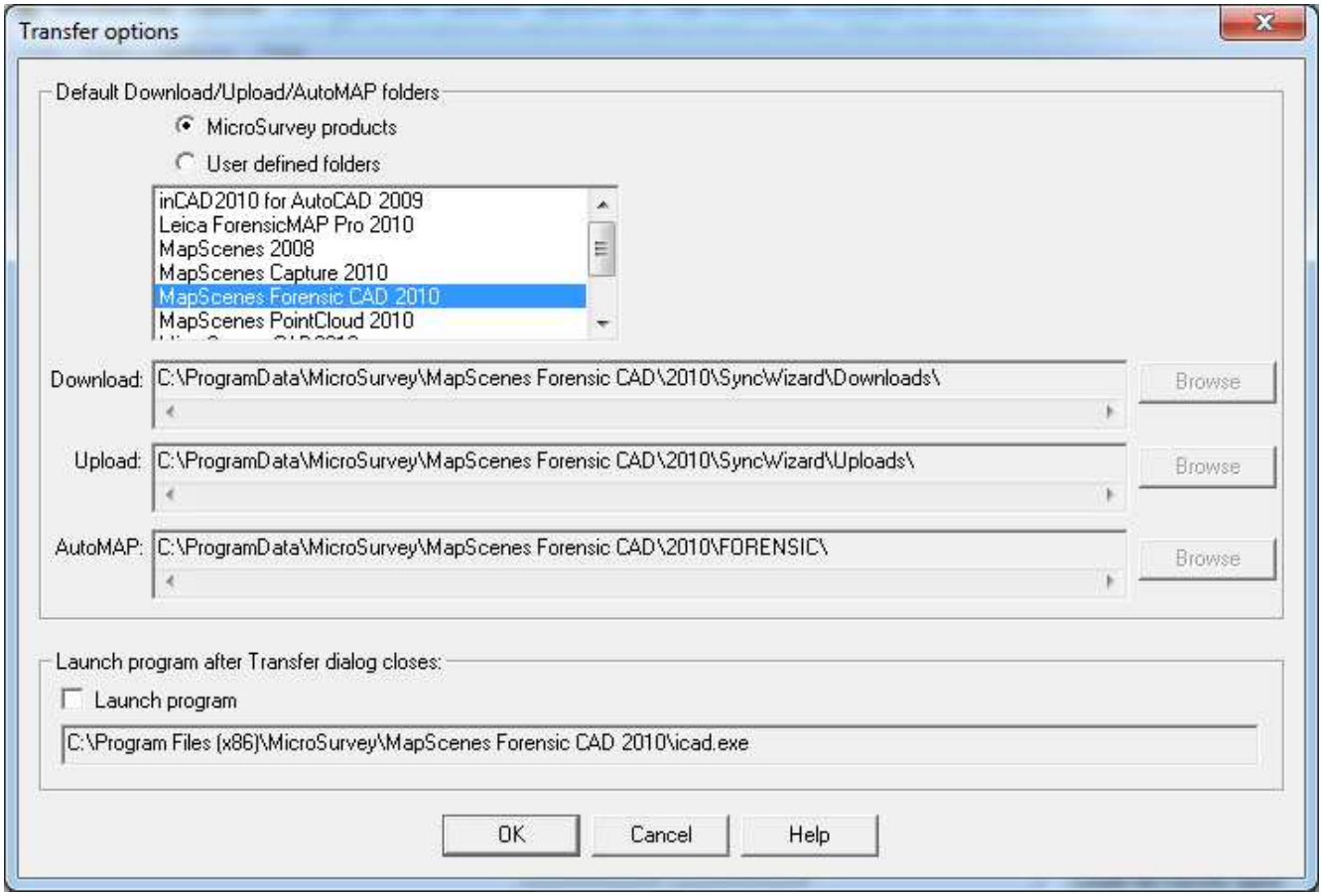
Once open, access the Options menu and configure it as shown:



And then select 

.

You will want to configure the transfer options so that Projects recorded in the handheld recorder are sent to the SyncWizard directory MicroSurvey Products use. The simplest way is to select the MicroSurvey Products option, and then the default settings will be assigned.



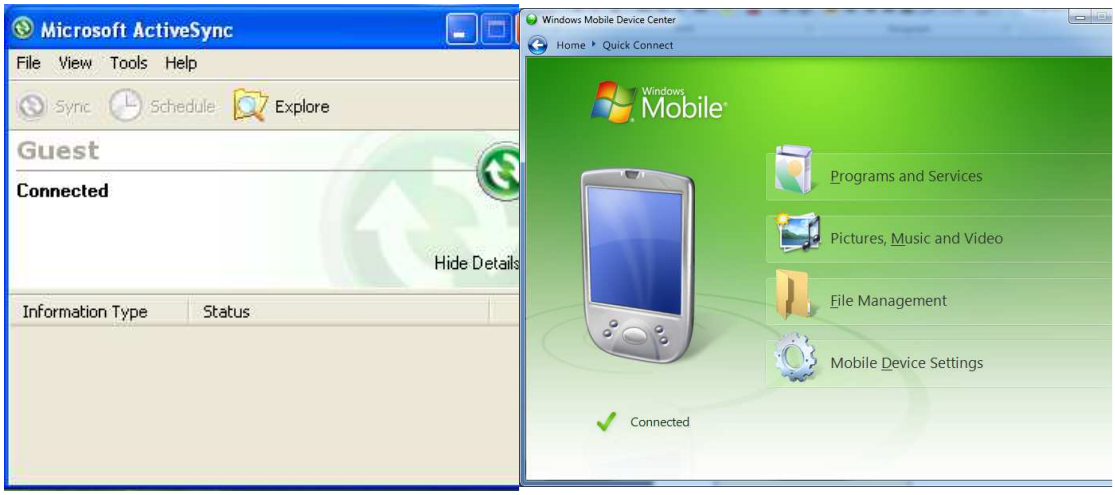
Exit the program, and you are now ready to download data.

ActiveSync Diagram Transfer

Transferring Data

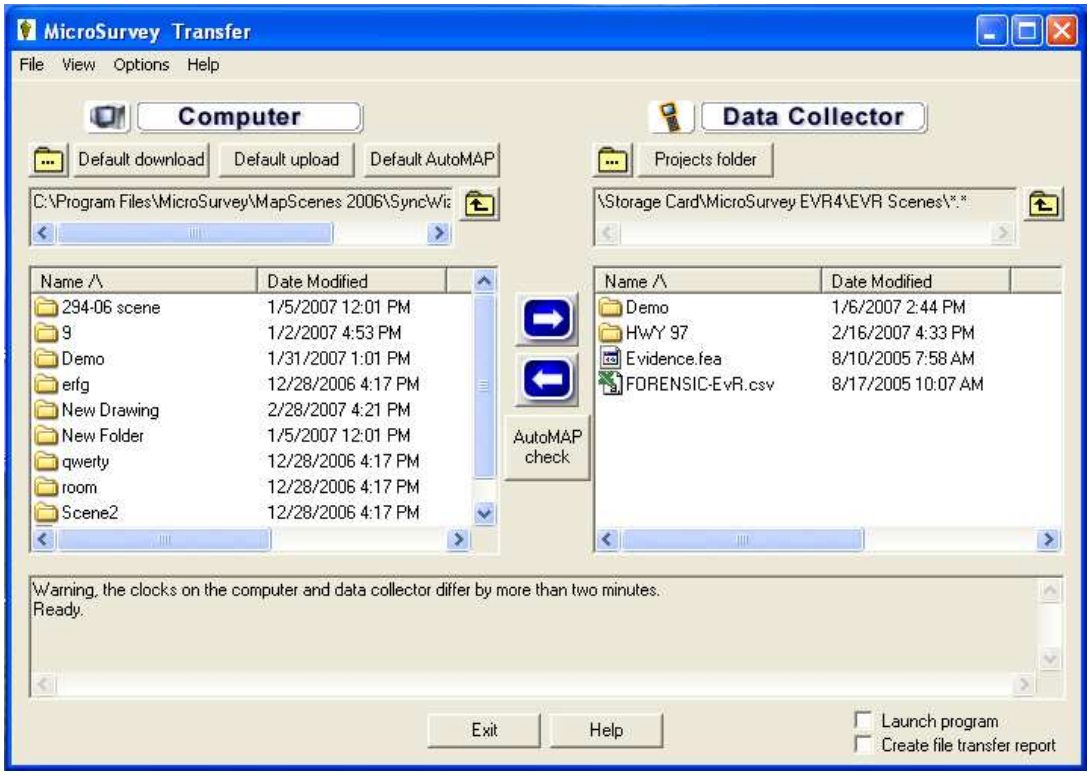
When your device is reconnected, ActiveSync will automatically activate MicroSurvey Transfer which will allow you to copy your Projects to your desktop computer. Follow this sequence of operations:

Connect your data collector, the Activesync or WMDC window will appear:

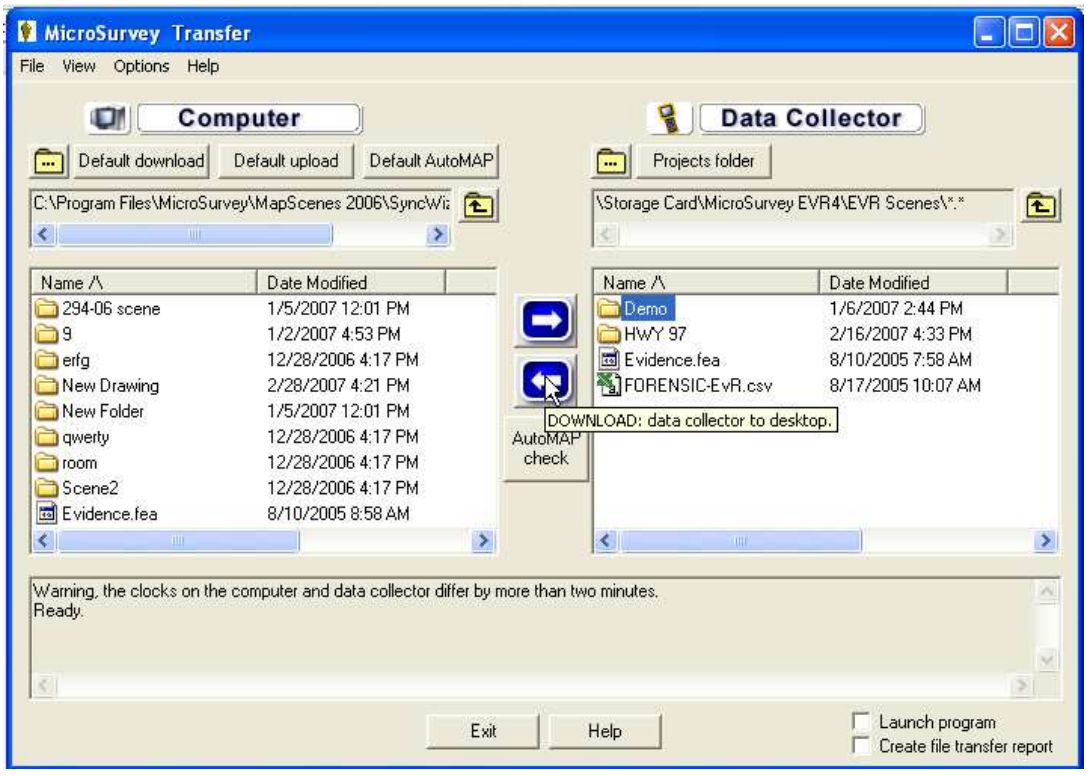


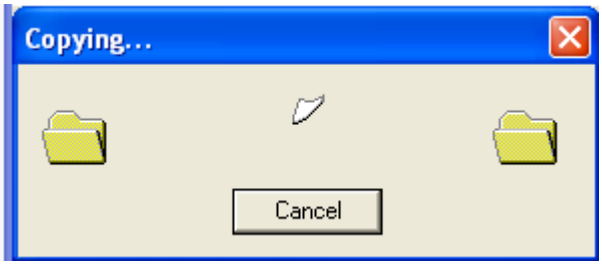
MicroSurvey Transfer will automatically open. Pick on

You can see scenes that have been downloaded in the screen on the left, and scenes that are available to download on the right.



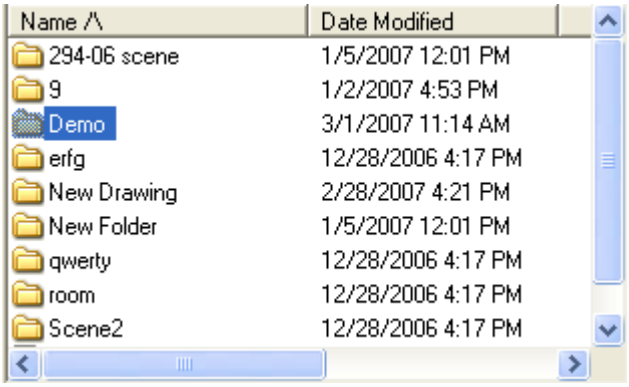
Highlight a Project to download, and click the left arrow button:





Your Project is now in the Downloads Directory and ready to “sync“ into a drawing using MicroSurvey Data Exchange or any MicroSurvey CAD product. All data for each project is stored in its own project folder to help keep your data organized.

AutoMap:

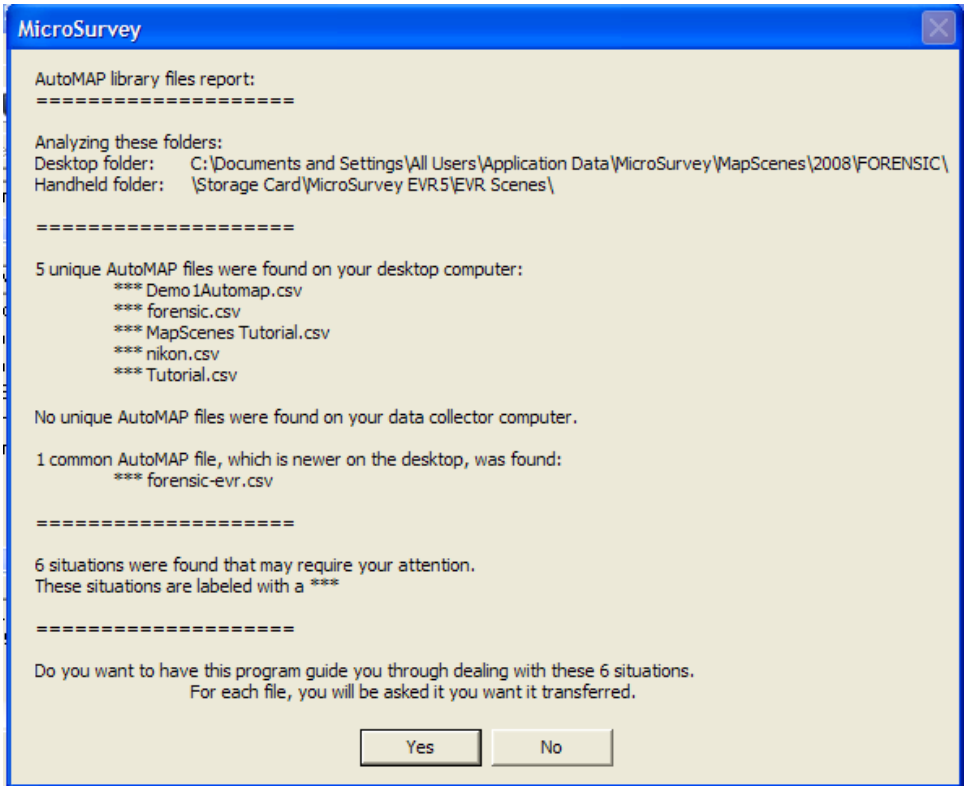


If you pick on

, MicroSurvey Transfer will update all of your AutoMAP libraries stored on the desktop computer and the Data Collector. This utility will carefully guide you through the process, identifying situations where AutoMap files may have been changed in one place but not in the other.

This process is very helpful if new descriptions have been added in either the desktop or data collector versions of an Automap file. This will

allow the new description to be available for both programs to use and will ensure the description is available to allow linework to be drawn properly during the SyncWizard process.



3.2.3 Connecting with U Disk Mode

When you have established connection between your device and your computer, the U disk mode will complete before ActiveSync mode. Open “My computer” and then you can see the letter of “Mobile Device” shown as in figure 11.

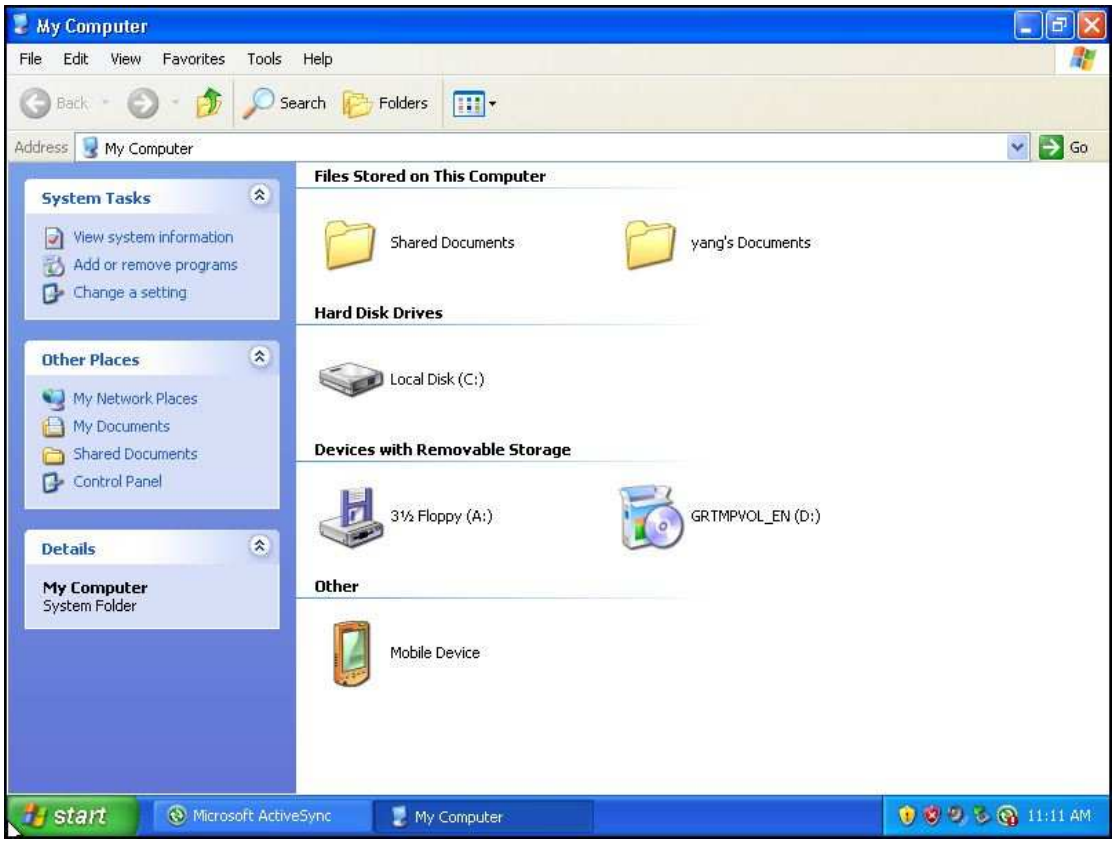


Figure 11

Open “Mobile Device”, you will enter the same operation interface as the ActiveSync mode shown as in figure 12. The later procedure is the same as the ActiveSync.

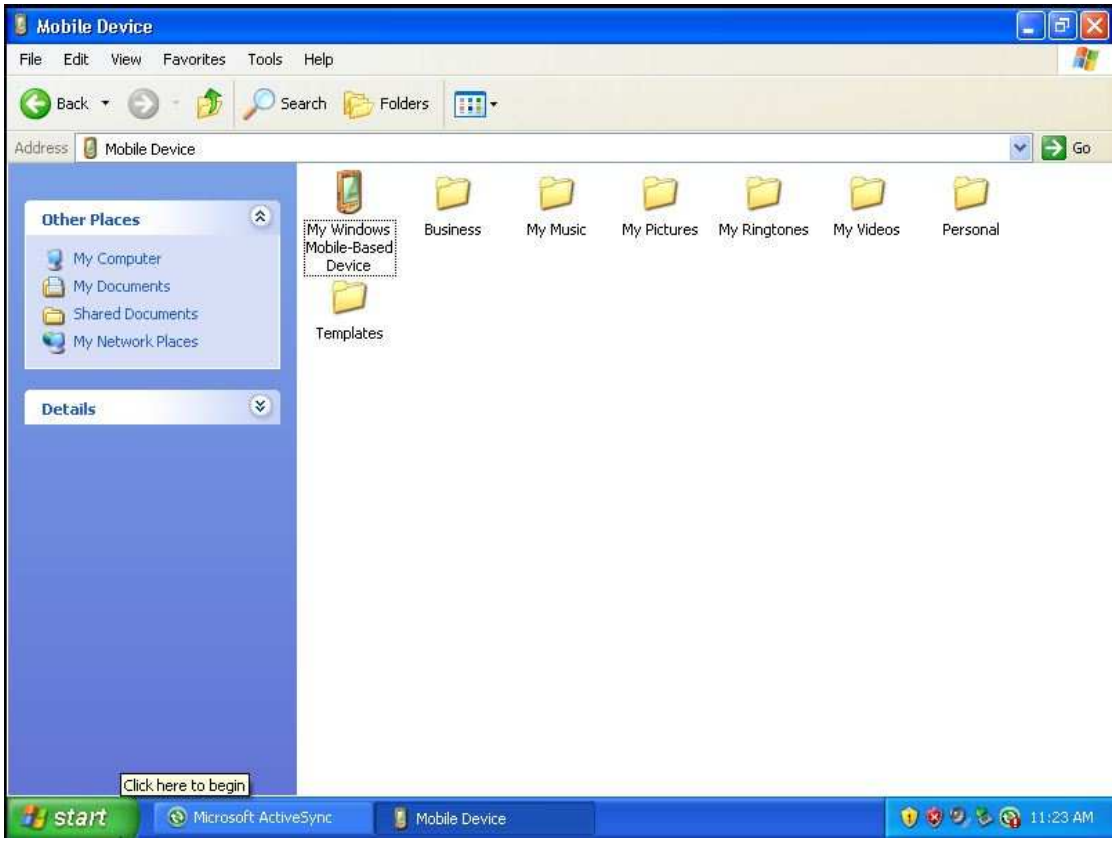


Figure 12

CAUTION: please ensure the device has enough power during synchronously transmitting data.

3.2.4 OTG Connection

Use OTG function connecting cord to connect the U disk or other USB mobile storage devices to USB connector on the bottom of the device. Open File Explorer, tap the pull-down box of my device, then you can see the letter of “Hard Disk”. You can transform data between the hard disk and the device.

Chapter 4 Brief Description of the Operating System

4.1 System Main Interface and the Start Menu

Turn on the device by press the battery button for some time, then we can see the home screen shown as figure 13.

Figure 13

Click the Windows icon in the lower left corner of the home screen. We can see the start menu shown as figure 14 where we can conduct basic settings and start relevant procedures.

Figure 14

Press and hold the program icon until the icon bounce shown as figure 15, then drag the icon to the location where you want shown as figure 16.

Figure 15

Figure 16

4.2 Status Indicators

The status indicators appear in the title bar at the top of the screen.

4.2.1 Battery Status Indicators

The battery status icon on the title bar of the Home screen or the Start screen shows the status of the battery charge.

Icon	Description
	Battery has full charge
	Battery has high charge
	Battery has medium charge
	Battery has low charge
	Battery has very low charge(20% or less)
	Battery charging/use external charge

4.2.2 Speaker Status Indicators

The battery status icon on the title bar of the Home screen or the Start screen shows the status of the speaker.

Icon	Description
	Speaker is on
	Speaker is off

4.2.3 Network and Modem Status Indicators

The network and modem status icons on the title bar of the Home screen or the Start screen show the status of each radio.

Icon	Description
	Connected to ActiveSync or the Windows Mobile Device Center(WMDC)on a computer
	Connected to Bluetooth-enabled computer
	Wi-Fi radio is on
	Maximum cellular modem signal strength
	Cellular modem is turned off
	No cellular service
	No SIM card

4.3 Pre-installed Programs

Programs that are pre-installed on the device are as follows:

Program	Function
ActiveSync	Synchronize information between the device and a computer.
Alarms	Set alarms.
Text	Send, receive and organize text messages.
E-mail	Compose, send and receive E-mail messages.
Internet Explorer	Brows the world wide web.

Calendar	Keep track of appointments and arrange meetings.
Contacts	Keep track of your friends and colleagues.
Windows Live	Access Windows Live services, including: E-mail, instant messenger and Internet search.
Windows Media	Play Windows Media or MP3 audio and video files.
Notes	Create handwritten, typed or recorded notes.
Calculator	Perform basic arithmetic functions.
Tasks	Keep track of your tasks.
Pictures & Videos	Take, view, and edit pictures, or record and launch video clips.
Search Phone	Search for a file or item stored on the device

4.4 Interacting With the Device

To interact with the handheld use the stylus or your finger to tap items on the touch screen or to scroll up or down.

Action	Definition
Tap	Touch the screen once to open the items and select options.
Press and hold	Press and hold an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.
Drag	Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select

	multiple items.
Flick	Flick the stylus or your finger to scroll a page or a list up and down.

4.5 Entering Information

Depending on the program you are using, you can enter information in several ways, as described below:

Input method	Description
Synchronizing	Use Microsoft connection management software to exchange information between the device and a PC.
Typing	Use the Keyboard input panel to enter typed text by clicking keys on the on- screen keyboard.
Drawing	Use the stylus (like using a pen) to draw (or write) directly on the screen.
Recording	Create a stand-alone recording or embed a recording into a note.

4.5.1 Using the On-screen Keyboard

Tap the input panel button to show the input panel as shown in figure 17.

Figure 17 Figure 18

To show special characters containing numbers and symbols shown as in figure 18, tap 123.

When you use the Input panel, your device anticipates the word you are typing or writing and displays it above the Input panel. When you tap the displayed word, it is inserted into your text at the insertion point. The more you use your device, the more words it learns to anticipate.

To hide the input panel, tap the input panel button again.

4.5.2 Drawing and Writing on the Screen Directly

In some applications, for example Notes, you can directly draw (or write) on the screen using the stylus.

Tap / Notes shown as in figure 19, tap menu, select Draw, and then you can write or draw directly on the screen.

Figure 19

4.5.3 Recording a Message

Tap / Notes, then tap. To create a stand-alone recording, in the screen displaying the list of Notes, tap View Recording Toolbar in figure 19, and then tap Record button to begin recording. To add a recording to a Note, create or open a Note and then tap the Record button to begin recording. When you finish recording, tap the Stop button. If you are recording in an open Note an icon appears in the Note. Tap “OK” to return to the Note list.

To play a recording tap the recording in the Note list or open the Note and then tap the icon in the Note.

4.5.4 Camera (Select Models Only)

Camera function built-in allows you to take photo or video in real time.

4.5.4.1 Taking Pictures

1. To start the program, press the key on your device or tap / Pictures & Videos/ Camera.

The Camera screen appears shown as in figure 20. Below the display area are indicators of the current status.

Figure 20

2. For camera controls, tap “Menu” shown as in figure 21.

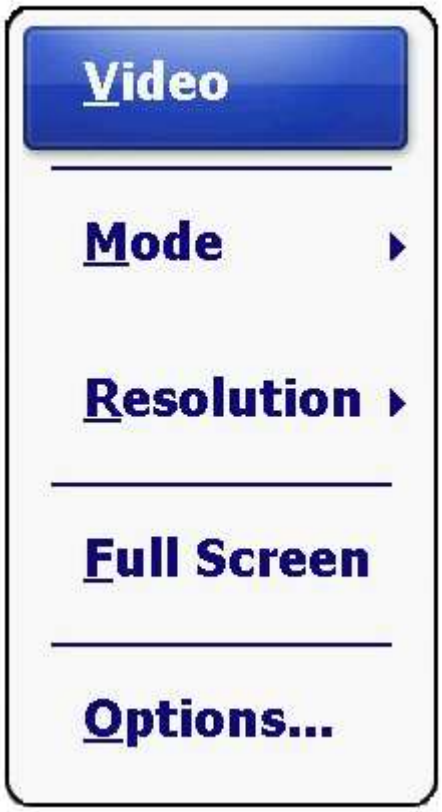


Figure 21

Menu Items	Descriptions
Mode	Three choices: 1. Normal 2. Burst- Continuous shooting of 5 pictures 3. Timer-5 second countdown before shooting
Resolution	Three choices: 1. 640×480 y v 12 2. 1024×768 y v 2 3. 2048×1536 y v 12
Full Screen	Full screen on or off.
Options	Overall settings to the Camera program.

CAUTION: By default, the display area blanks out and shows the word

“standby” when the camera has been idle for one minute. To resume, tap the screen.

3. Press the key to take the picture.

4. The result shows on the screen if the picture was taken in Normal or Timer mode. At this time, you can tap “Menu” to perform a desired task to the current picture. Tap “Camera” or “ok” to go back to the Camera screen.

5. The picture is saved to the predefined storage location (as long as you didn’t delete it in the previous step).

4.5.4.2 Recording Video Clips

1. To start the program, press the key on your device or tap / Pictures & Videos/ Camera.

2. Tap Menu/ Video to switch to the video mode shown as in figure 22. Below the display area are indicators of the current status.

Figure 22

3. For recording controls, tap “Menu” shown as in figure 23.

Figure 23

CAUTION: By default, the display area blanks out and shows the word “standby” when the camera has been idle for one minute. To resume, tap the screen.

4. Press the key to start recording. If needed, you can tap “Pause” to temporarily pause the recording and then tap “Resume” to continue.

5. To stop, press the key or tap “Stop”. Or, the recording will automatically stop when the length reaches the pre-defined maximum value (30 seconds by default).

6. The video clip is saved to the predefined storage location. To view the video clip, tap “Thumbnails” and choose the video you want to view.

4.6 Personal Settings

Use the controls in the Settings area to customize the device. The following examples describe controls that are available.

4.6.1 Buttons

Use the Buttons control under Personal settings to assign the action you want to be performed when you press the**F1**, **F2** or **F3**. By default, these keys perform the same action as the left and right tiles in the tile bar.

Tap / Settings/ Personal/ Buttons, open the button interface shown as in figure 24.

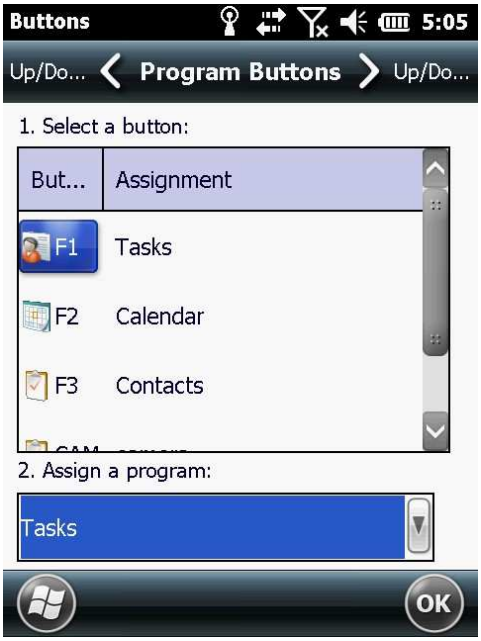


Figure 24

Select a button, select the action you want to occur when you press the button or tap the soft key from the assign a program drop-down list, and then tap “OK”.

4.6.2 Home

Use the Home settings to change the display theme that controls the appearance of the Home screen and to customize how items appear on the Home screen.

4.6.2.1 Appearance

You can use a theme to customize the background picture on the Home screen, the color of the title and tile bars, menus and messages.

Tap / Settings/ Home/ Appearance, you can see the interface shown

as in figure 25.

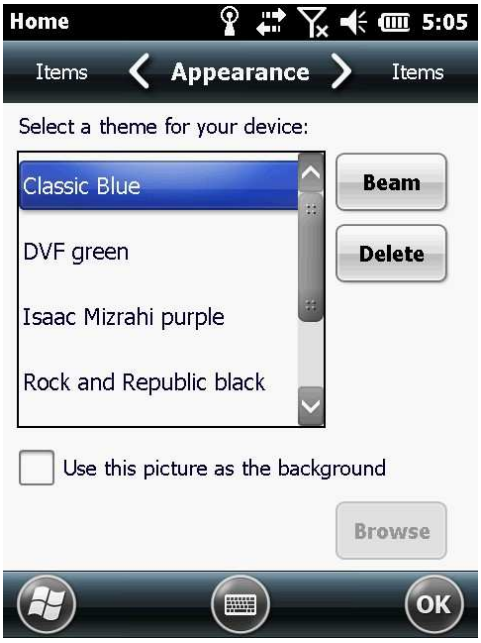


Figure 25

To use a predefined theme select it from the list. Select “Use this picture as the background” check box, and then tap “Browse” to search for a file on the device. Tap “OK” to complete the theme picture settings.

4.6.2.2 Items

You can customize which items appear on the Home screen and the order in which they appear by the item tab.

Tap / Settings/ Home/ Items, you can see the interface shown as in figure 26.

Figure 26

Select the items to appear on the home screen and the order in which they appear, and then tap “OK”.

4.6.2.3 Set Date and time

There are three methods as follows to open the Clock &Alarms interface:

1. Tap the clock item on the home screen.

2. Tap the tittle bar and then tap the clock icon on the pull-down list.

3. Tap / Settings / Clock &Alarms.

Tap “Time” tab as shown in figure 27.

Figure 27

Set the required hours, minutes, seconds from the drop-down list then.

4.6.3 Screen Lock

Tap the Screen Lock icon on the Start screen to lock the screen and keypad while the device remains turned on. After that you can see the interface shown as in figure 28.

Figure 28

Slide the unlock icon to unlock.

4.6.4 Set Passwords

It is possible to keep your data secure by requiring a password each time the handheld is turned on, tap / Settings / Lock to set a password or to change password settings shown as in figure 29.

Figure 29

You can set password and hint by taping “Password” tab and “Hint” tab.

4.6.5 Power

There are two methods as follows to open the power control:

1. Tap the tittle bar and then tap the power icon on the pull-down list.

2. Tap / Settings/ Power.

You can see the dialog box shown as in figure 30.

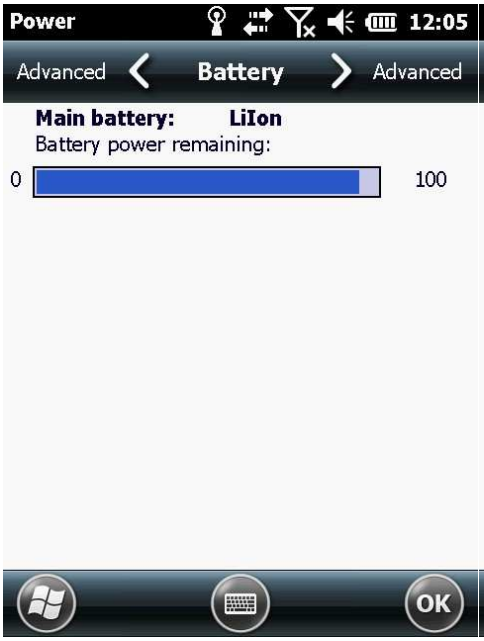


Figure 30

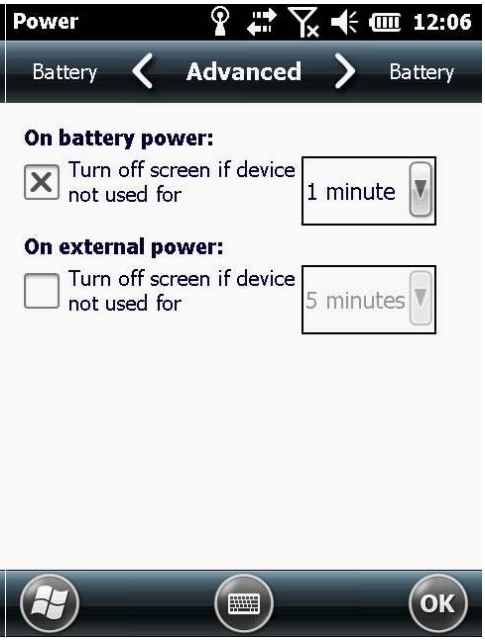


Figure 31

Tap “Battery” tab to check the battery level. Tap “Advanced” tab shown as in figure 31 to set the time before the device turns off when idle.

4.6.6 Sounds and Notifications

Use the Sounds & Notifications control set preferences for the speaker volume and system sounds.

Tap / Settings/ Sounds & Notifications, tap “Sounds” tab shown as in figure 32 to set the sounds of the event.

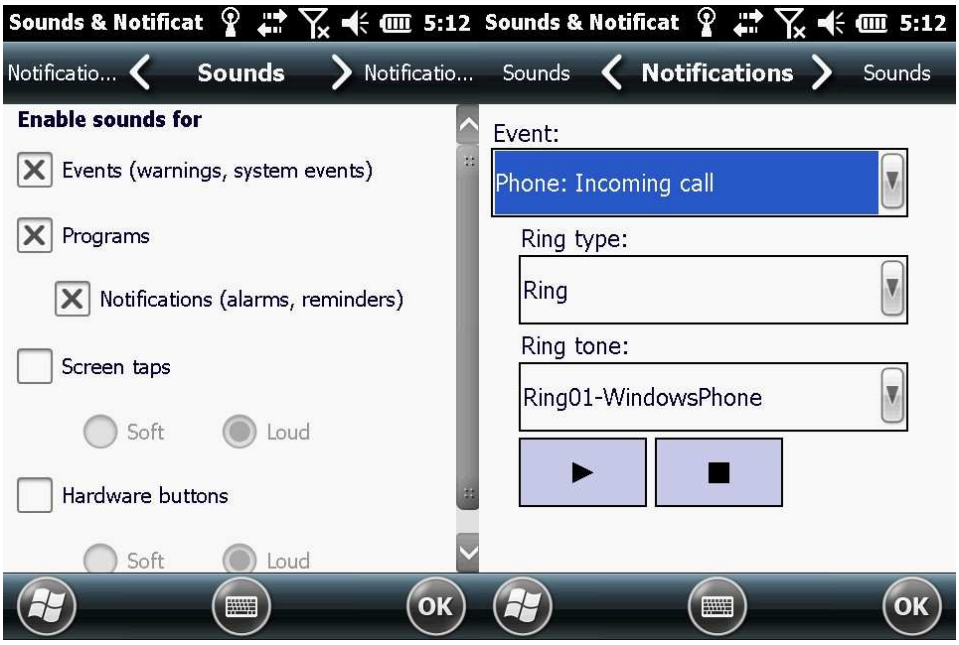


Figure 32 Figure 33

Tap “Notifications” tab shown as in figure 33 to set the Ring type and Ring tone of the event.

4.6.7 Screen

Use the Screen interface to align the touch screen or to change the appearance of text on the screen.

Tap / Settings/ System/ Screen, and then tap “General” tab. It’s shown as in figure 34. Select an option in the orientation group to change the screen orientation, and then tap “OK”.

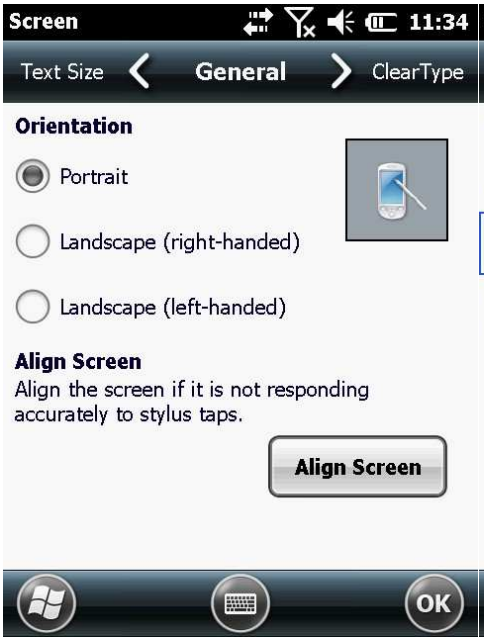


Figure 34

Figure 35

Tap “Text Size” tab shown as in figure 35 and drag the slider control to change the size of the text, tap “OK”.

4.6.8 Backlight

The backlight makes the screen easier to read in low light but uses extra power. Use the Backlight control to configure power-saving settings for the backlight.

Tap / Settings/ System/ Backlight shown as in figure 36 to set the time before the device turns off the backlight when idle.

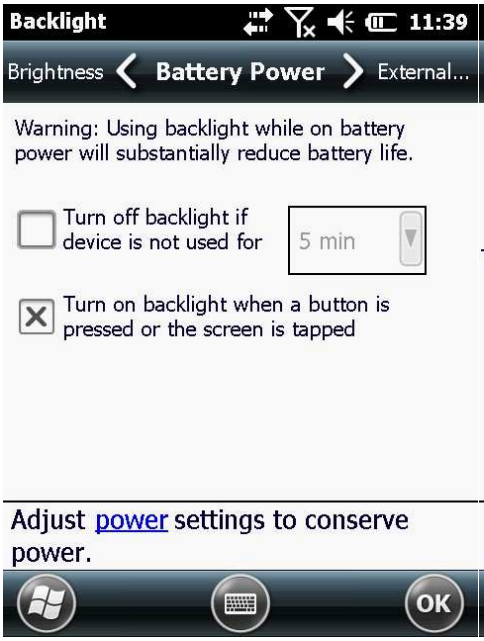


Figure 36

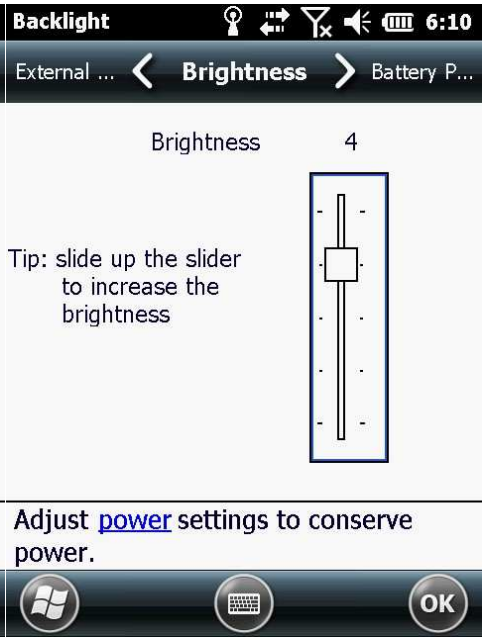


Figure 37

Unselect “Turn off backlight if device is not used for”, then the device won’t turn off the backlight when idle.

Tap “Brightness” shown as in figure 37 to change the brightness of the device.

4.6.9 Align Screen

Whenever the screen doesn’t respond to the stylus or your finger, you should align the screen.

Tap / Settings/ System/ Screen shown as in figure 38 and tap “Align Screen” tab shown as in figure 39.

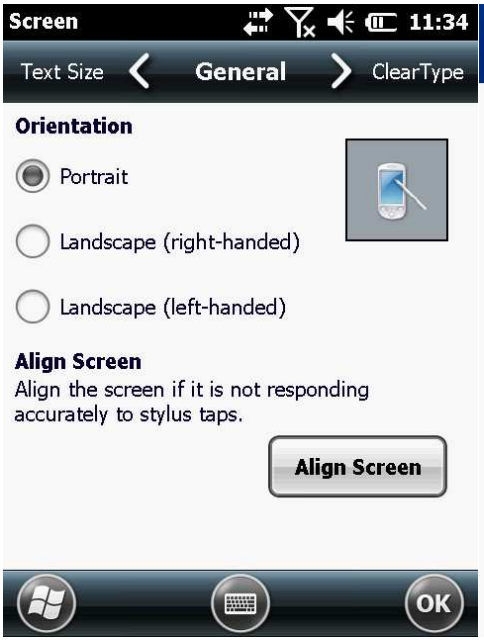


Figure 38

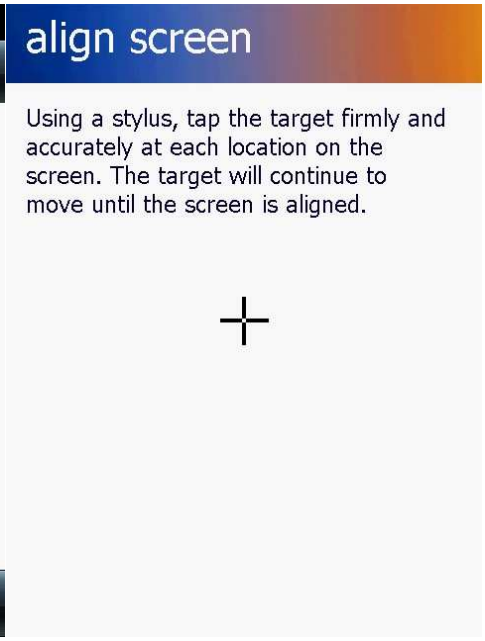


Figure 39

Tap the target to align the screen, the device will exit the align interface automatic after the screen is aligned.

4.7 GPRS Network Setting

Use GPRS to connect the internet, you can receive and send messages through the network. You need to apply for GPRS Service from your service provider, and you can search the rate of the GPRS provided by the service provider. Please contact with your service provider to specifically know the rate of GPRS and the tariff standard

4.7.1 Add New GPRS Connecting

1. Tap / Settings/ Connections/ Connections. It's shown as in figure 40.

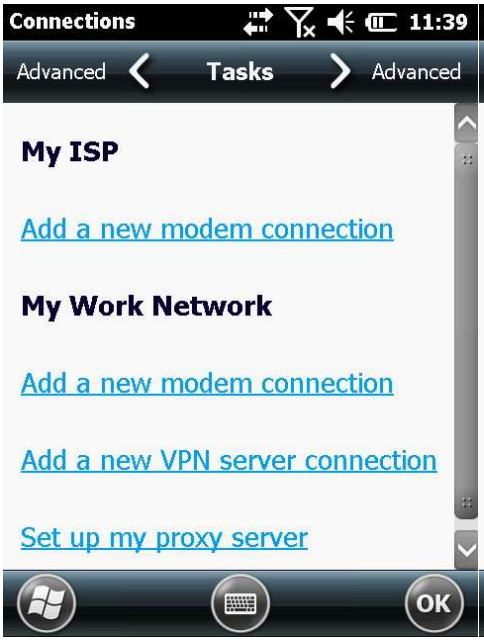


Figure 40

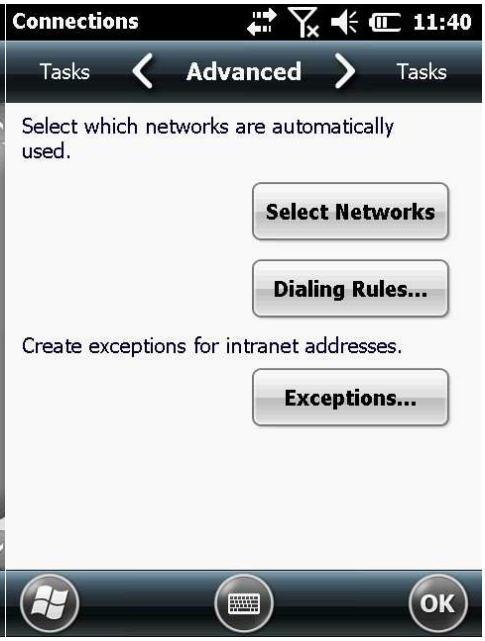
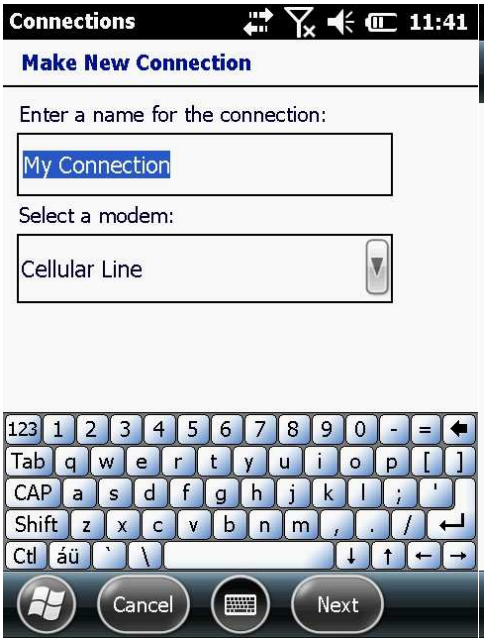


Figure 41

2. Choose “advanced” as shown in figure 41, tap “select networks” shown as in figure 42. Remarks: if internet had been set, you can turn to step 5.

3. Choose “My ISP” in drop-down box and click “Ok” to return to figure 41 and then click the “tasks” tag in the upside as shown in figure 43.



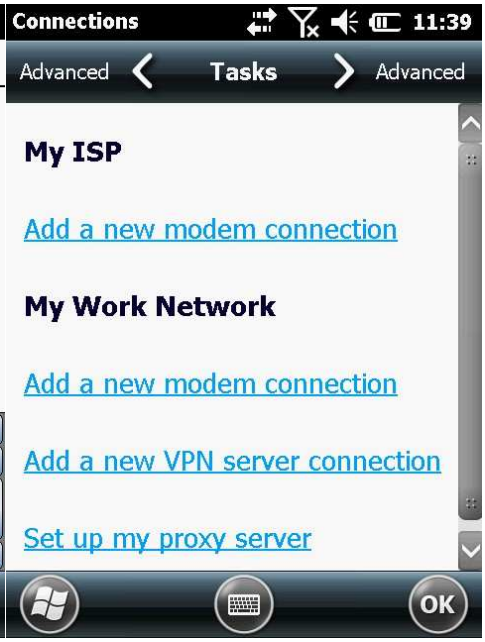
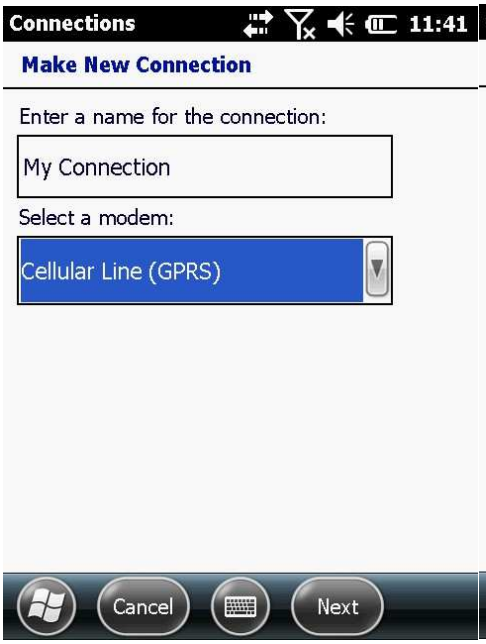


Figure 42 Figure 43

4. Tap “Add a new modem connection” as shown in figure 44.

5. In “select a modem” choose “cellular line (GPRS)” and then click the next step. Input the name of access point “CMNET”.



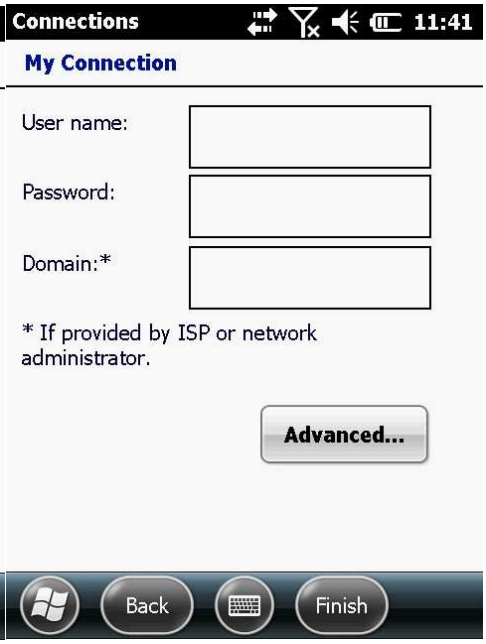


Figure 44 Figure 45

Tap “Next” as shown in figure 45, it’s not need to fill User name, Password and Domain. Tap “Finish”.

CAUTION: Please confirm GPRS connecting is on and has established connection before you use the GPS to measure.

4.8 Bluetooth Connecting

Tap / Settings/ Bluetooth as shown in figure 46.

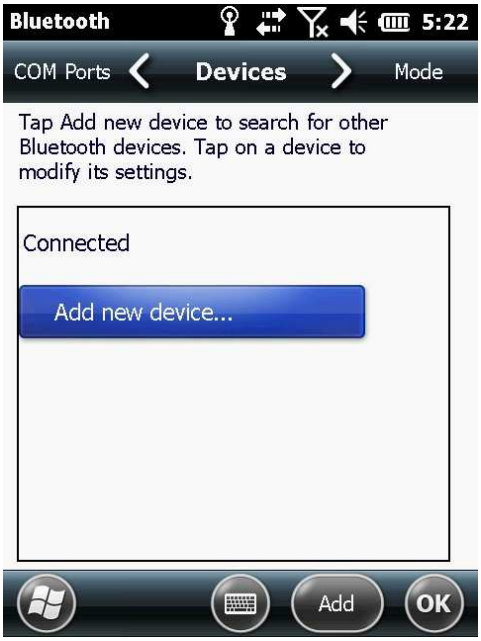


Figure 46

Tap “Add new device” and select the specified Bluetooth device. Tap “Next” to input password (default password is 1234) as shown in figure 47, tap “Next”, and then tap “OK”.

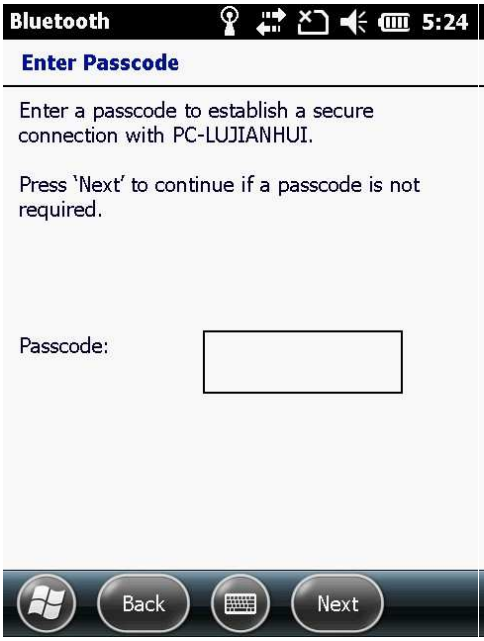


Figure 47

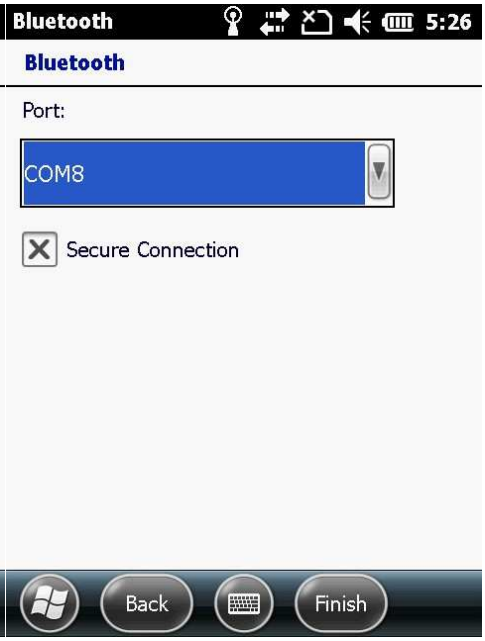


Figure 48

Back to Bluetooth main screen, select “COM ports”. Choose “New

Outgoing Port". Confirm the device SN and then click "Next". Choose port (you can use COM0, COM4, COM7, COM8, COM9) as show in figure 48, and then click "Finish".

CAUTION: To delete the port matched before when we are using Bluetooth, the right operation method is delete it first in the matching port, and then delete the specific device in the "disconnected". It will bring inconvenience to use if you do in an improper order.

4.9 Phone and Text Messages (Select Models Only)

4.9.1 Phone

4.9.1.1 About Your Phone

Select models are equipped with the HSDPA (High-Speed Downlink Packet Access) module. HSDPA is an enhanced 3G (third generation) mobile telephony communications protocol. It can operate on 850/900/1800/1900/ 2100MHz.

To use the phone, you need to first set up an account with a mobile phone network service. The functions available to you depend on the services offered by your mobile phone network service provider and your type of subscription.

Your service provider will provide you with a SIM card. This card contains

your mobile phone account details and rights, contacts that can be stored and any additional services to which you have subscribed. You must install a SIM card before you can make or receive phone calls or use wireless data services.

4.9.1.1.1 Switching on or off the Phone

When the device is turned on, the phone is switched on by default. When needed (for example, on an airplane), you can switch off the phone without turning off your device.

1. Tap / Settings/ Connections/ Wireless Manager, or tap the tittle bar, tap connectivity indicator on the pull-down list, and then tap “Wireless Manager”.
2. Appear the screen as shown in figure 49.

Figure 49

Tap “Phone” to switch it from off to on.

3. When the phone is switched on, you may be requested to enter the PIN (Personal Identification Number) code if it has been set.

Then, your device will search for the mobile phone network service and show the name in the Wireless Manager section on the Today screen.

Tap “Phone” again if you want to turn it off, then the Phone section displays Phone off.

4.9.1.1.2 Starting the Phone Program

Start the Phone program by any of the three methods:

1. Press the Send key on the device.

2. Tap Phone (left soft key) on the Today screen.

3. Tap / Phone.

CAUTION: if the phone is currently off, you will be asked to turn it on.

Whenever you start Phone, the Phone screen displays the soft keypad.

You can tap Hide Keypad (left soft key).

You can use other programs during a call. To quickly switch back to Phone, press the Send key on your device.

4.9.1.1.3 Phone Status Icons

Icons will be displayed on the navigation bar to indicate the status of the phone functions. They are listed below:

Icon	Meaning	Icon	Meaning
	Phone off (airplane mode)		EDGE available
	Signal strength		WCDMA/UMTS available
	Call in progress		WCDMA/UMTS in use
	Missed call		HSPA available
	Call on hold		HSPA in use
	GPRS available		Missing SIM card
	GPRS in use		EDGE in use

4.9.1.2 Making a Call

4.9.1.2.1 Dialing a Call

1. When on the Today screen: Press the numeric keys on your device to start entering the phone number. Your device will automatically switch to

the Phone program.

While in the Phone program: Enter the phone number using the physical or onscreen keypad.

2. As you enter the phone number, the program searches Contacts, Call History, and Speed Dial to find a matching name and/or number. When you see the name of the person to call listed, select it and the desired phone number.

Or, you can continue entering the complete phone number.

3. Press the Send key on your device to make the call.

CAUTION:

- If you enter a wrong number, use the Backspace key to eraser individual numbers one at a time.
- If you are making an international call, tap and hold on the number key 0 until + sign appears. The + sign replaces the international prefix of the country from where you are calling.

4.9.1.2.2 Making a Call From the Onscreen List

Whenever you start the Phone program, the screen lists all recent calls, speed dials, and contacts.

If the list contains the number you want to call, you can conveniently select from the list and press the Send key on your device.

CAUTION: To view a different list on the phone screen, tap menu/ view and select one of the options.

4.9.1.2.3 Making a Call From Contacts

Microsoft Contacts displays your contact information stored both in your device's memory and on your SIM card.

1. Start the Contacts program.

2. Do one of the followings to call a person in the contact list:

① Tap the contact to call. Then tap the number to call; or move to the number to call and then tap Call or press the Send key.

② Tap and hold on the contact to call, and then tap the number to call in the shortcut menu.

4.9.1.2.4 Making a Call From the Call History List

The Call History list displays the calls you made, received or missed.

1. While in the Phone program, tap "Call History".

If have hidden the keypad, tap Keypad to see the Call History key.

2. Do one of the followings to call a person in the Call History list:

① Select the number to call and then tap "Call" or press the Send key on your device.

② Tap and hold on the number to call and then tap "Call" in the

shortcut menu.

4.9.1.2.5 Making a Call From Speed Dial

If you have created speed dial entries, you can call a person quickly. When on the Today screen or in the Phone program, press and hold the numeric key of the assigned speed dial number to make the call.

4.9.1.3 Responding to a Call

When an incoming call is received, your device rings or vibrates according to the options you have set for the phone. The name and number of the caller are displayed on the pop-up window. If the name of the caller is not in your contact list, only the caller's phone number is displayed.

4.9.1.3.1 Answering a Call

To answer an incoming call, press the Send key on your device or tap Answer (left soft key).

4.9.1.3.2 Rejecting a Call

To reject an incoming call, press the End key on your device or tap Ignore (right soft key).

4.9.1.3.3 Ending a Call

To end a call, press the End key on your device or tap End on the screen.

4.9.1.4 Operations During a Call

4.9.1.4.1 Adjusting the Phone Volume

To adjust the volume during a call, tap the icon on the navigation bar and select a volume level.

4.9.1.4.2 Using the Mute Function

During a call, you can mute your microphone so that the person with whom you are speaking cannot hear you, but you can still hear him or her.

On the Phone keypad, tap “Mute” to switch on the mute function. The icon will appear on the upper-right corner. To switch off the mute function, tap “Unmute”.

4.9.1.4.3 Using the Speakerphone

Tap “Speaker” On to switch on the speakerphone function. The icon will appear on the navigation bar.

To switch off the speakerphone function, tap “Speaker Off”.

4.9.1.4.4 Managing More Than One Call

CAUTION: You may need to register for the “call waiting” service with your mobile phone network service and set your device accordingly. The exact number of people you can talk at the same time depends on your mobile phone network service.

During a call, you can make or take a second call while putting the current call on hold. Then, you can choose to swap between the two callers or set up a conference call between all three parties.

Holding a Call to Take a Second Call

1. If there is another incoming call when you are talking on your device, a pop-up window appears to notify you.

2. Tap “Answer” to place the first call on hold, and answer the second call.

3. To end the second call and go back to the first, tap “End”.

Rejecting the Second Call

To reject the second call and keep your current call in progress, tap Ignore. Be careful not to tap End; doing so will end the current call.

Placing a Call on Hold to Make a Second Call

1. During a call, tap “Hold” to place the first call on hold.

2. Dial a second number or the first few letters of the second contact’s

name by using the numeric keypad on your device. Then press the Send key to connect. Wait for it to be picked up.

3. To end the second call and go back to the first, tap “End”.

Swapping Between Calls

When you have put a call on hold and made or taken another call as described earlier, you can swap between the two calls by tapping “Swap”.

Setting up a Conference Call

CAUTION: You may need to consult your mobile phone network service for the availability and subscription of the conference call function.

1. When you have put a call on hold and made or taken another call as described earlier, you can set up conference calling by tapping Menu/ Conference.

2. To add additional people to your conference, tap Hold. Dial a second number and press the Send key to connect. Wait for it to be picked up. Then tap Menu/ Conference.

3. If you want to talk to one of the parties privately during the call, tap Menu/ Private. Select a number, and tap “Private”.

4.9.1.4.5 Taking a Note During a Call

You can take a note during a call.

1. Tap “Notes”.

2. Enter your note and tap “ok”.

To access a note you created during a call:

1. While in the Phone program, tap “Call History”.

2. The icon indicates that the phone call entry contains a note. Tap and hold the name or number for that entry, and tap “View Note” in the shortcut menu.

CAUTION: You can also tap “Programs”, “Notes”, and access the note in the Calls folder.

4.9.1.5 Using Call History

Call History provides the time and duration of all incoming, outgoing, and missed calls, and a summary of total calls. Call History also provides easy access to any notes taken during a call.

To access Call History while in the Phone program, tap “Call History”.

4.9.1.5.1 Viewing Call History

You can tap Menu/ Filter to change the Call History view (All Calls by default).

All Calls: Displays all calls made to and from your device in a chronological order.

Missed: Displays only calls that were not answered.

Outgoing: Displays only calls made from your device.

Incoming: Displays only calls made to your device.

To see the time, date and duration of a call, tap the item on the list to view details.

To clear all items on the list, tap Menu/ Delete All Calls.

4.9.1.5.2 Adding an Entry to Contacts Using Call History

You can add a phone number in the Call History to Outlook Contacts or SIM Contact.

1. Tap and hold the entry you wish to transfer, and tap Save to Contacts in the shortcut menu.

2. Tap New Contact and select a contact type.

3. Enter the contact's name, and select the proper number type.

Using the Phone is selected Models Only.

4. Tap "Save" to save the entry.

4.9.1.6 Using Speed Dial

You can create Speed Dials for frequently-called phone numbers so you can dial a number with a single key press.

4.9.1.6.1 Creating a Speed Dial Entry

Speed dials can only be created for numbers stored in Contacts.

1. While in the Phone program, tap “Speed Dial”.

2. Tap Menu/ New.

3. Tap the desired contact.

4. In Name, accept the current name or change it if you want to.

5. In Number, select the phone number if there is more than one number for the contact.

6. If Location, accept the current speed dial number or change the number if you want to.

7. Tap “ok” to save the setting.

The new Speed Dial entry is now on the Speed Dial list. The letter on the lower-right corner of the entry indicates the assigned phone number. For example, ‚m‘ indicates the mobile phone number.

4.9.1.6.2 Editing or Deleting a Speed Dial Entry

1. While in the Phone program, tap “Speed Dial”.

2. Tap the desired entry and tap Delete or Tap and hold on the desired entry, and tap “Delete” in the shortcut menu. (Select Models Only)

3. Tap “Yes”.

4.9.1.7 Customizing Your Phone

To access the Phone Settings, start the Phone program and tap Menu/ Options.

4.9.1.7.1 Changing Phone Settings

Tap “Phone” tab.

You can customize phone settings, such as the ring type and ring tone to be used for incoming calls, and the keypad tone to be used when entering phone numbers.

CAUTION: To use custom .mp3, .wav or .mid files as ring tones for incoming calls, copy the files to the Application data/ Sounds folder on your device or to the inserted storage card. Then, select the sound from the Ring Tone list.

4.9.1.7.2 Changing Security Settings

Tap “Security” tab.

You can protect your phone from unauthorized use.

You might be prompted to enter the PIN2 code for specific functions (such as the pre-paid card’s charging counters). Consult your mobile phone network service to check if your SIM card supports PIN2-related functions and services.

CAUTION: Emergency call can be placed at any time without requiring a PIN code.

4.9.1.7.3 Changing Services Settings

Tap “Services” tab.

You can access and configure settings for the phone services you subscribed to through your mobile phone network service. For example, you may want to block certain types of incoming and/or outgoing calls, forward incoming calls to a different phone number based on your situation, be notified of incoming calls when you are already in a call, or let others know your identity when making calls. Services available to you depend on your mobile phone network service and the type of your subscription.

To view your services settings, tap a service and then tap “Get Settings”.

4.9.1.7.4 Changing Network Settings

Tap “Network” tab.

You can view available wireless networks, determine the order in which your phone accesses another network if the current one is unavailable, and specify whether you want to change networks manually or automatically. The current network will remain active until you change it, lose your signal, or change your SIM card.

4.9.1.8 Additional Phone Operations

4.9.1.8.1 Using Text Messages

Text messages are automatically received when your phone is switched on. The Today screen shows if there are new text messages. You can tap the section to open the message list.

To send a text message, you can do one of the followings:

① Select a phone number from a program such as Phone or Contacts at first. Then select “Send Text Message” from the shortcut menu or soft key.

② Start the Messaging program at first. Then select the phone number.

4.9.1.8.2 Setting up an Internet Connection

You can set up an Internet connection using the mobile network.

4.9.1.8.3 Checking Your Voice Mail

The first position in your speed dial list defaults as your voice mailbox. When you insert your SIM card, your device automatically detects your voice mailbox number and sets it to the first position in your speed dial list.

4.9.1.8.4 Making an Emergency Call

You can use your device to dial the international emergency number 112. This number can normally be used to make an emergency call in any country with or without a SIM card inserted, as long as you are within a mobile phone network.

Some mobile phone network services may require that a SIM card be inserted, and in some cases that the PIN be entered.

There may be other emergency numbers available. Your mobile phone network service may save additional local emergency numbers in the SIM card.

4.9.1.8.5 Dialing an International Call

When you are manually dialing a number, tap and hold on the number key 0 until the + sign appears. The + sign replaces the international prefix of the country from where you are calling.

Enter the full phone number you want to dial including country code, area code (without the leading area code zero) and local phone number.

4.9.2 Text Messages

4.9.2.1 Reading Text Messages

Text messages are automatically received when your phone is switched

on. The Today screen shows if there are new text messages. You can tap the section to open the message list.

To manually open the message list:

1. Tap / Text.

2. The message list appears. Select the item you want to read.

4.9.2.2 Composing and Sending a Text Message

1. Tap / Text.

2. Tap Menu/ New.

CAUTION: You can also send a text message by selecting a phone number from another program such as Contacts or Phone. Then select “Send text message” from the shortcut menu or soft key.

3. Enter the phone number of one or more recipients, separating them with a semicolon.

To select phone numbers from Contacts, tap “To”.

4. Enter your message.

To quickly add common messages, tap Menu/ My Text, and tap a desired message.

5. Tap “Send”.

4.10 WIFI Connecting

4.10.1 Switching On or Off the Wi-Fi Radio

By default, the Wi-Fi radio is switched off. To switch on or off the Wi-Fi radio:

1. Tap the Wireless Manager section on the Today screen or tap the connectivity indicator on the navigation bar and tap “Wireless Manager”.

2. In the Wireless Manager screen, tap Wi-Fi to change the Wi-Fi radio status.

When switched on, your device will display the word Available if wireless networks are detected.

If you have previously connected to a wireless network, your device will try to connect to the same network and display the name of the network after the connection.

4.10.2 Connecting to a Wireless Network

1. Switch on the Wi-Fi radio. (See ,Switching On or Off the Wi-Fi Radio‘ previously.)

2. Your device will detect available Wi-Fi networks.

If more than one network is detected, the screen will display a network list. Select the network you want to connect to, and tap “OK”.

3. Select to connect to the Internet or the private network, and then tap

“Connect”.

4. If the selected network requires a network key, enter the key and tap “Connect”.

The WIFI icon appears on the navigation bar.

CAUTION: You can also search for a network to connect by tapping / Settings/ Connections/ Wi-Fi.

Once you have connected to a network, the shortcut is created in Settings. Tap / Settings/ Connections/ Wi-Fi to change the network settings. Tap the desired network and change the settings.

5. When you have finished using the wireless network, end the Wi-Fi connection by switching off its radio.

CAUTION: Leaving the radio on will consume more power.

Chapter 5 Software Operation

You can install programs you need on the device except Pre-installed programs.

5.1 Installing Programs

1. Download the programs you need or copy them directly from the CD to your computer.

2. Connect your device and computer, and copy the installation program to your device when you have established the connection between your device and your computer. Find the program you want in the File Explorer and run it. Install the program following the instruction and select the installation path customizing. The system will automatically generate a shortcut when the installation has successfully completed. Click the shortcut to run the program.

CAUTION: If the system prompts to restart the device when the installation has successfully completed, follow the prompts.

5.2 Uninstalling Programs

Tap / Settings/ System/ Remove Programs and select the program you want to uninstall, tap “Remove” to accomplish the operation.

Chapter 6 Troubleshooting and Maintenance

This chapter gives solutions to common device problems you may encounter. It also provides guidelines on taking care of your device.

If you have any questions, please contact with technical personnel.

6.1 Troubleshooting

Problem	Solution
Power does not switch on when using battery power.	The remaining battery power may be too low to run your device. Charge the battery.
Screen responds slowly.	Make sure that your device is not running out of battery power. If the problem still persists, restart your device.
Screen freezes.	Restart your device.
Cannot establish a connection with a computer via USB.	Make sure that your device and your computer are both switched on before trying to establish a connection.
	Make sure that the cable is securely plugged into the USB port on your computer and on your device. Connect the USB cable directly to your computer—do not run the cable through a USB hub.
	Restart your device before connecting the cable. Always disconnect your device before you restart your computer.

	In some specific cases, your device may experience connection problems when it is connected to a Windows computer running ActiveSync. To resolve the problems, please tap / Settings/ Connections/ USB to PC, and then clear “Enable advanced network” functionality.
A warning message of not enough memory appears.	Delete files you no longer need.
	Remove programs you no longer need.
	Delete all files and clear history in Internet Explorer.
	Stop programs you are not currently using. To check the state of your active programs, tap / Settings/ System/ Task Manager.
	Restart your device.

6.2 Resetting Your Device

In some cases, you may need to restore your device to the factory default state by clearing the memory. For example, you should clear the memory when the device can’t be turned off, start or when you forget your password.

Clearing the memory means all data you have entered in your device’s memory, including all files, system settings and additional programs you have installed, will be erased. (Programs installed to ROM at the factory are not affected.)

CAUTION: To ensure the integrity of your data should it be necessary to clear the memory, you are advised to regularly back up your data.

You can do one of the followings to upgrade:

1. Please consult the aftermarket Technical support or factory technician to ensure the upgrade files are correct and latest.

2. Upgrade BOOT: Press and hold the power button, number keys 4 and 7 when your device is off until the screen appears upgrade BOOT. Restart your device when the upgrade has successfully completed.

3. Upgrade OS: Press and hold the Power button, number key 4 and "*" until the screen appears upgrade OS. The upgrade process takes a few minutes, please be patient.

6.3 Caring for Your Device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from extreme temperatures and excessive moisture.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Never privately attempt to disassemble, repair or make any modifications to your device.
- Do not store or carry flammable liquids, gases or explosive materials

in the same compartment as your device, its parts or accessories.

Chapter 7 Legal Notice

The terms and conditions of this Limited Warranty constitute the complete and exclusive warranty agreement between The Customer or Dealer and MicroSurvey for the Product and supersedes any prior agreement or representation made in any MicroSurvey sales document or advice that may be provided to Customer by any MicroSurvey representative in connection with Customer's purchase of the Product. No change to the conditions of this Limited Warranty is valid unless it is made in written form and signed by an authorized MicroSurvey supervisor.
MicroSurvey warrants that its DC5 Product:

(1) Is free from defects in materials or workmanship for 1 year.

a) Accessories or specific parts for which different limited warranty period shall apply.

(2) Have been tested/calibrated in proper working status prior to shipment.

The warranty period starts from date of first sale of the instruments. At its sole discretion, under the warranty period, MicroSurvey will repair the product or send parts for replacement at its expense. MicroSurvey agrees to repair or replace the defected instrument within thirty (30) days only if MicroSurvey recognizes that the defects of the instrument are not caused by human factors or no obvious damage to its surface is visible. MicroSurvey warrants any new replaced parts or products are warranted to be free from defects in materials and workmanship for thirty (30) days or for the remainder of the Limited Warranty Period of the Product in which they are installed, whichever is longer. Faulty Parts or Products replaced under this Limited Warranty shall become property of MicroSurvey.
All products that have to be repaired have to be returned to our technical representative office location via any delivery company the customer prefers, nevertheless MicroSurvey is not accountable for the unlikely event that the Products gets lost in transit.
Any damage inflicted by the customer or by third party after the products has been delivered to the customer is excluded from the limited warranty as well any damage arising from an improper use, from any action or use not provided for in the enclosed user guides and/or manuals.

Shipping policy

The Customer or the dealer is required to pay for the charges for shipping of fault parts or instruments to MicroSurvey representative office and MicroSurvey is providing the shipping for return.
Dealers needs to follow MicroSurvey repair/service procedure to achieve prompt service results.

Return policy Dead On Arrival instruments

All returned products have to be shipped to MicroSurvey representative office.
The original Purchaser has a period of seven (7) days starting from date of purchasing to signal the existence of a defect in the instrument for a full refund (less shipping and handling), provided the merchandise is in new, resalable condition and returned in the original, undamaged packaging. Customer has to pay for both the return and the original freight fees, regardless of the original freight paid by the Company. All warranty books, instruction manuals, parts and accessories must be included as well as the original box in which the item was shipped. We recommend to place the original carton inside another box, to avoid any additional damage to the carton itself. In some cases, returns of special items will require a re-stock fee. Acceptance of returned merchandise is final only after inspection by MicroSurvey.
Above terms and policies shall apply as for hardware. Dealers needs to follow MicroSurvey repair/service procedure to achieve prompt service results.

Over Warranty repair(s) policy

Customer shall pay the standard repair fees for any service (whether part replacement or repairs) and performed by MicroSurvey under request and explicit authorization of the customer itself. In this case the customer is charged for return shipment's fees as well.

Disclaimer and Limitation of Remedy

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STORAGE MEDIA, OR (2) ANY DIRECT OR INDIRECT DAMAGES, LOST PROFITS, LOST SAVINGS OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, CONTRACT, TORT OR OTHERWISE, OR WHETHER ARISING OUT OF THE USE OF OR INABILITY TO USE THE PRODUCT AND/OR THE ENCLOSED USER GUIDES AND/OR MANUALS, EVEN IF MICROSURVEY, OR AN AUTHORIZED MICROSURVEY REPRESENTATIVE, AUTHORIZED SERVICE PROVIDER OR RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR SOME PRODUCTS, SO THE EXCLUSIONS OR LIMITATIONS MAY NOT APPLY TO CUSTOMER. THIS LIMITED WARRANTY GIVES CUSTOMER SPECIFIC LEGAL RIGHTS, AND CUSTOMER MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM COUNTRY/STATE/JURISDICTION TO COUNTRY/STATE/

Instruments

DC5- One (1) year on the data collector itself.

Accessories

Accessories & Specific Parts Warranty:
For Accessories provided by MicroSurvey with the instruments DC5 the following general warranty time is as follows:

- Batteries: 6 months.
- Battery chargers: 6 months.
- Cables, Bracket, Pole, Carrying case, Antennas: 1 year.

7.3 Service Procedure

Repair/Service procedure

(1) Contact MicroSurvey with the S/N of the instrument and a detailed description of the defect (sometimes pictures or video) will be required to indicate the cause and problem.

1) Wait for MicroSurvey to authorize the return/exchange

2) When you receive authorization return the units to MicroSurvey as outlined in the authorization. “Returned Merchandise Authorization (RMA)” must be received before you send the faulty instrument. MicroSurvey shall, at its sole discretion,

repair or exchange the device under warranty.

7.4 Environmental recycling

The cardboard box, the plastic in the package and the various parts of this product have to be recycled and disposed of in accordance with the current legislation of your Country.

FOR COUNTRIES IN THE EUROPEAN UNION (EU)

The disposal of electric and electronic device as solid urban waste is strictly prohibited: they must be collected separately.
Contact Local Authorities to obtain practical information about correct handling of the waste, location and times of waste collection centers. When you buy a new device of ours, you can give back to our dealer a used similar device. The dumping of these devices at unequipped or unauthorized places may have hazardous effects on health and environment.
The crossed dustbin symbol means that the device must be taken to authorized collection centers and must be handled separately from solid urban waste.

FOR COUNTRIES OUTSIDE EUROPEAN UNION (EU)

The treatment, recycling, collection and disposal of electric and electronic devices may vary in accordance with the laws in force in the Country in question.

Appendix 1： Specifications

Model	DC5
Physical specification	
Operation System	Windows Mobile6.5
Processor	Marvell PXA-310 806MHz Xscale

RAM	256MB	
Internal storage	4G + 256MB	
Extended storage	TF card up to 32G	
Weight	550g(with internal battery)	
Size	177*91*33mm	
Camera	5,000,000 pixels, VGA resolution video capture	-
Button	Full digital versatile physical keyboard	
Sensor	Comes with electronic compass(optional)	
Display		
Screen	Color TFT transflective screen	
Resolution	480×640VGA	
Screen size	3.7 inch	
Power supply		
Battery	1500mAh high capacity Lithium battery, Voltage 7.4V;	
Working time	6 hours	
Communication		
Wireless	802 11b/g wireless WLAN	
Bluetooth device	2.1+EDR version	
Communication module	USB ,OTG(connect PC with USB)	
Communication module	Global Universal Quad Band Module/3.5G	-
Operating environment		
Waterproof/Dustproof	IP65(optional IP67), protected from temporary immersion	
Operating temperature	-20℃ to +60℃	
Storage temperature	-30℃ to +70℃	
Humidity	5% -95% non-condensing	
Drop	1.5m concrete floor plywood fall without injury	